

FIRE-RETARDANT ELASTOMERIC PACKING MATERIAL FOR FIRE PROTECTION

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Abstract

PURPOSE:To obtain the title material which is free from the evolution of a toxic gas, emits a reduced amt. of smoke, and suitable for use in partition wall penetrating sections, such as electric wires and cables, by incorporating carbon black and a crosslinking agent in a mixture of an elastomer free from a halogen atom with a hydrous inorg. compd. to prepare a composition and then molding and crosslinking the composition.
CONSTITUTION:100pts.wt. mixture of 15-65wt% elastomer free from a halogen element, such as an ethylene-alpha-olefin copolymer, butyl rubber, or the like, with 85-35wt% fire-retardant agent composed of a hydrous inorg. compd. having an average particle diameter of 0.1-20µm [e.g., Al(OH)₃] is blended with 0.1-20pts.wt. carbon black, e.g., one obtd. in a furnace and having an average particle diameter of 1µm-10µm and a carbon content of 95% or more and a crosslinking agent (vulcanizing agent), such as dicumyl peroxide, to prepare an elastomer compsn. The compsn. is molded into a desired shape, followed by crosslinking.

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